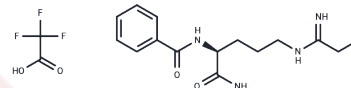


F-Amidine TFA

Chemical Properties

CAS No. :	877617-46-4
Formula:	C ₁₄ H ₁₉ N ₄ O ₂ ·CF ₃ COOH
Molecular Weight:	408.4
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	F-amidine is a selective inhibitor of protein arginine deiminases (PADs), specifically targeting PAD1 and PAD4 with in vitro IC ₅₀ values of 29.5, 350, and 21.6 μM for PAD1, PAD3, and PAD4, respectively. It irreversibly inactivates all four PAD subtypes by covalently modifying an active site cysteine crucial for enzymatic activity, with kinact/K _i values of 2,800, 380, 170, and 3,000 M ⁻¹ min ⁻¹ . Additionally, F-amidine demonstrates cytotoxicity against HL-60, MCF-7, and HT-29 cancer cell lines, with IC ₅₀ s of 0.5, 0.5, and 1 μM, respectively.
Targets(IC ₅₀)	Others,PAD

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4486 mL	12.2429 mL	24.4858 mL
5 mM	0.4897 mL	2.4486 mL	4.8972 mL
10 mM	0.2449 mL	1.2243 mL	2.4486 mL
50 mM	0.049 mL	0.2449 mL	0.4897 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481